

Mdb. Rnt. 19140

RECEIVED

pt. 4c. 15 SEP 1949
IN D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 588

9 SEP 1949

Date of writing Report 19... When handed in at Local Office 19... Port of NOTTINGHAM.

No. in Survey held at Lincoln Date, First Survey... Last Survey... 19...
eg. Book.

Single on the Twin Triple Quadruple Screw vessel M.V. LUMEN 1197
Number of Visits... Tons Gross 10146 Net 5865

built at... By whom built... Yard No... When built...

owners To order of Sunderland Forge & Eng. Co. Ltd., Port belonging to 52889/17/480020, B.04812.

Engines made at Lincoln By whom made Ruston & Hornsby Ltd., Contract No... When made 1949

Generators made at Sunderland By whom made Sunderland Forge & Eng. Co. Ltd., Contract No... When made 1949

No. of Sets 1 Engine Brake Horse Power 30 M.N. as per Rule... Total Capacity of Generators 15 Kilowatts.

Set intended for essential services...

IL ENGINES &c.—Type of Engines 3VRHZ. Eng. No. 271020 2 or 4 stroke cycle 4 Single or double acting SA

Maximum pressure in cylinder 800 lbs. Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.15/16" ft. 2

Revolutions per minute 1000

Weight 420 lbs. Means of ignition Compression Kind of fuel used Diesel Oil

Crank pin dia. 3" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis

Intermediate Shafts, diameter... General armature, moment of inertia (16 m² or Kg.-cm.²)

Means of lubrication Forced Kind of damper if fitted

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

one 150 gals./150 Engine driven.

State No. of Report or Certificate

What means are provided for cleaning their inner surfaces

Working pressure by Rules

The foregoing is a correct description,
Ruston & Hornsby Limited, Manufacturer.

Reeves
Engineering Div.



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Lloyd's Register
Foundation

005353-005357-0126

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Dates of Survey while building { During progress of work in shops - - 21.3.49., 18.7.49. }
{ During erection on board vessel - - - }
Total No. of visits 2

Dates of Examination of principal parts—Cylinders..... Covers..... Pistons..... Piston rods.....

Connecting rods..... Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft { Material..... Tensile strength 40/45 Tons/sq. inch. }
{ Elongation..... Identification Marks LL.K4020E. TDS. BW.4718. }

Flywheel shaft, Material..... Identification Marks.....

Identification marks on Air Receivers.....

Is this machinery duplicate of a previous case..... Yes If so, state name of vessel..... Standard.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.).....

This engine has been built under Special Survey, in accordance with the approved plans and the rules of the Society, materials and workmanship being good.

On completion, the generating set was tested under working conditions in shops and the governing tested with satisfactory results.

The set has been forwarded to Sunderland for installation on board the vessel.....

This generating set has been securely fitted aboard, tried out under working conditions and found satisfactory.

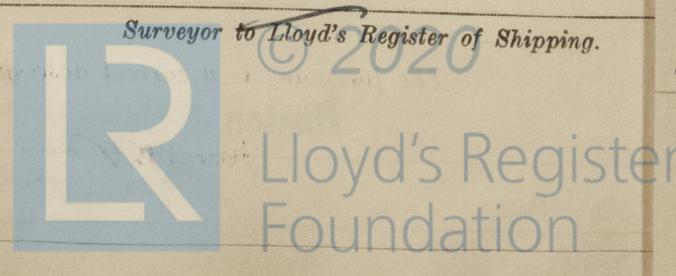
H. Smith for J. B. Smith

The amount of Fee ... £ 4 : 0 : 0 { When applied for 7/2/ 19 49 . }
Travelling Expenses (if any) £ : : { When received..... 19..... }

H. Smith

Committee's Minute..... FRI. 1 SEP 1950.....

Assigned..... See F.E. mchly. rpt.....



501.4.18.-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)